



Discuss 1° For what values of a, b does the limit $\lim_{x \rightarrow 0} f(x)$ exist; 2° For what values of a, b , is the function $f(x)$ continuous at $x = 0$.

Solution Since

$$f(0^-) = \lim_{x \rightarrow 0^-} \frac{\sin x}{x} = 1, \quad f(0^+) = \lim_{x \rightarrow 0^+} \left(x \sin \frac{1}{x} + b \right) = b$$

then

1° The limit $\lim_{x \rightarrow 0} f(x)$ exists if and only if $f(0^-) = f(0^+)$, i. e., $b = 1$ (a can be chosen arbitrarily).

2° The function $f(x)$ is continuous at $x = 0$, if and only if $f(0^-) = f(0^+) = f(0)$, i. e., $a = b = 1$.

If x_0 is a discontinuous point, then the equation (5) is destroyed, and hereby the discontinuities can be classified into two kinds.

The first kind: The discontinuity x_0 , where both $f(x_0^-)$ and $f(x_0^+)$ exist, is called a discontinuity of the first kind.

1° $f(x_0^-) \neq f(x_0^+)$, i. e., both $f(x_0^-)$ and $f(x_0^+)$ exist but not equal. No matter whether the function is defined or not, the first kind discontinuity of this type is called a jump discontinuity, and $f(x_0^-) - f(x_0^+)$ is called the saltus. The mutation of the amount is often accompanied by qualitative change.

Example 2 Given the function $f(x) = \frac{2}{1 + e^{1/(x-1)}}$, since $f(1^-) = 2, f(1^+) = 0$, then $x = 1$ is a jump discontinuity of the function (Fig. 2.6).

2° $f(x_0^-) = f(x_0^+)$, but not equals to $f(x_0)$ or $f(x_0)$ does not exist, i. e., limit exists but not continuous. The first kind discontinuity of this type is called a removable discontinuity, because we could remove the discontinuity by redefining f at just the single number x_0 , let $f(x_0) = \lim_{x \rightarrow x_0} f(x)$, to get a function which continuous at x_0 . It is important to notice that "removable" only shows the properties of the discontinuities, don't confuse removable discontinuous with continuous points.

Example 3 The function $f(x) = \frac{\sin x}{x}$ is not defined at $x = 0$. Since $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$, so $x = 0$ is a removable discontinuity. If we just define $f(0) = 1$, the function becomes

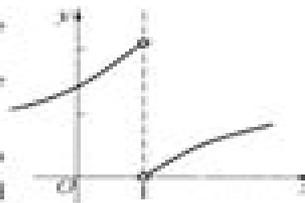


Fig. 2.6

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Terence Tao



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1. Understanding the eBook Calulus 2e Calculus Connections Set
 - The Rise of Digital Reading Calulus 2e Calculus Connections Set
 - Advantages of eBooks Over Traditional Books
2. Identifying Calulus 2e Calculus Connections Set
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Calulus 2e Calculus Connections Set
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calulus 2e Calculus Connections Set
 - Personalized Recommendations
 - Calulus 2e Calculus Connections Set User Reviews and Ratings
 - Calulus 2e Calculus Connections Set and Bestseller Lists
5. Accessing Calulus 2e Calculus Connections Set Free and Paid eBooks
 - Calulus 2e Calculus Connections Set Public Domain eBooks
 - Calulus 2e Calculus Connections Set eBook Subscription Services
 - Calulus 2e Calculus Connections Set Budget-Friendly Options

6. Navigating Calulus 2e Calculus Connections Set eBook Formats
 - ePub, PDF, MOBI, and More
 - Calulus 2e Calculus Connections Set Compatibility with Devices
 - Calulus 2e Calculus Connections Set Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calulus 2e Calculus Connections Set
 - Highlighting and Note-Taking Calulus 2e Calculus Connections Set
 - Interactive Elements Calulus 2e Calculus Connections Set
8. Staying Engaged with Calulus 2e Calculus Connections Set
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calulus 2e Calculus Connections Set
9. Balancing eBooks and Physical Books Calulus 2e Calculus Connections Set
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calulus 2e Calculus Connections Set
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Calulus 2e Calculus Connections Set
 - Setting Reading Goals Calulus 2e Calculus Connections Set
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Calulus 2e Calculus Connections Set
 - Fact-Checking eBook Content of Calulus 2e Calculus Connections Set
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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